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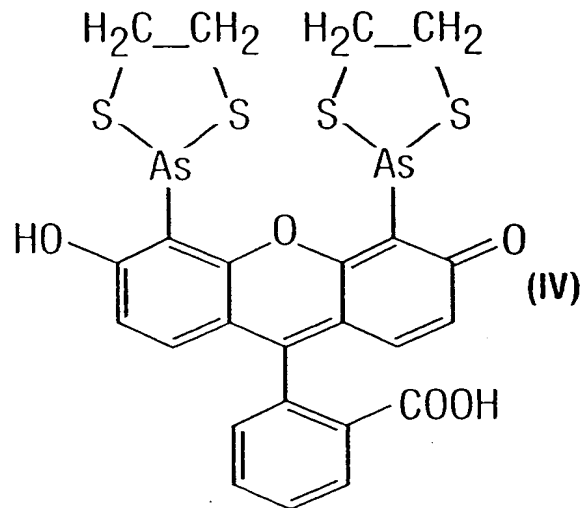
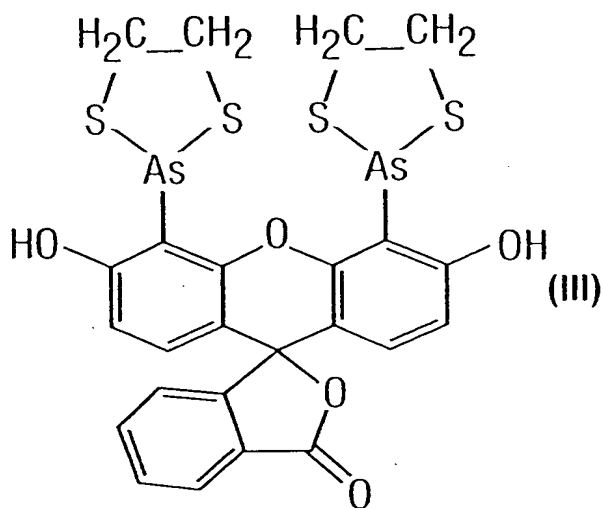
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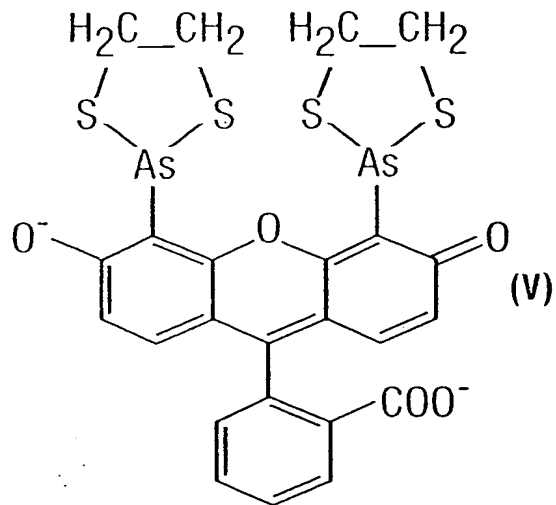
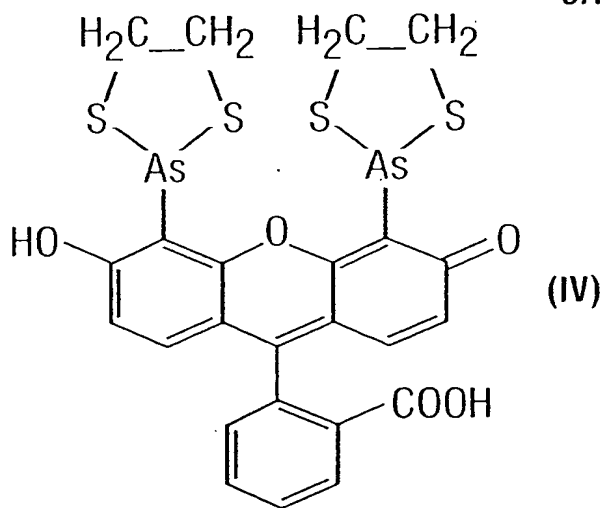
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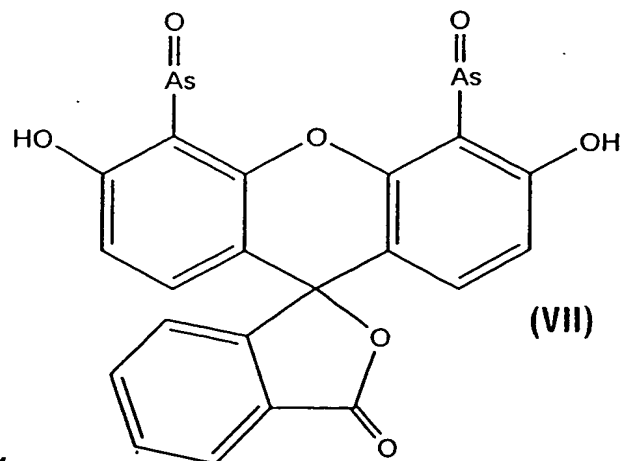
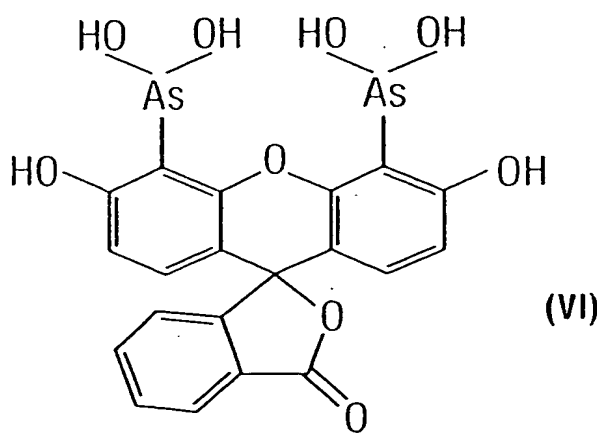


FIG. 1

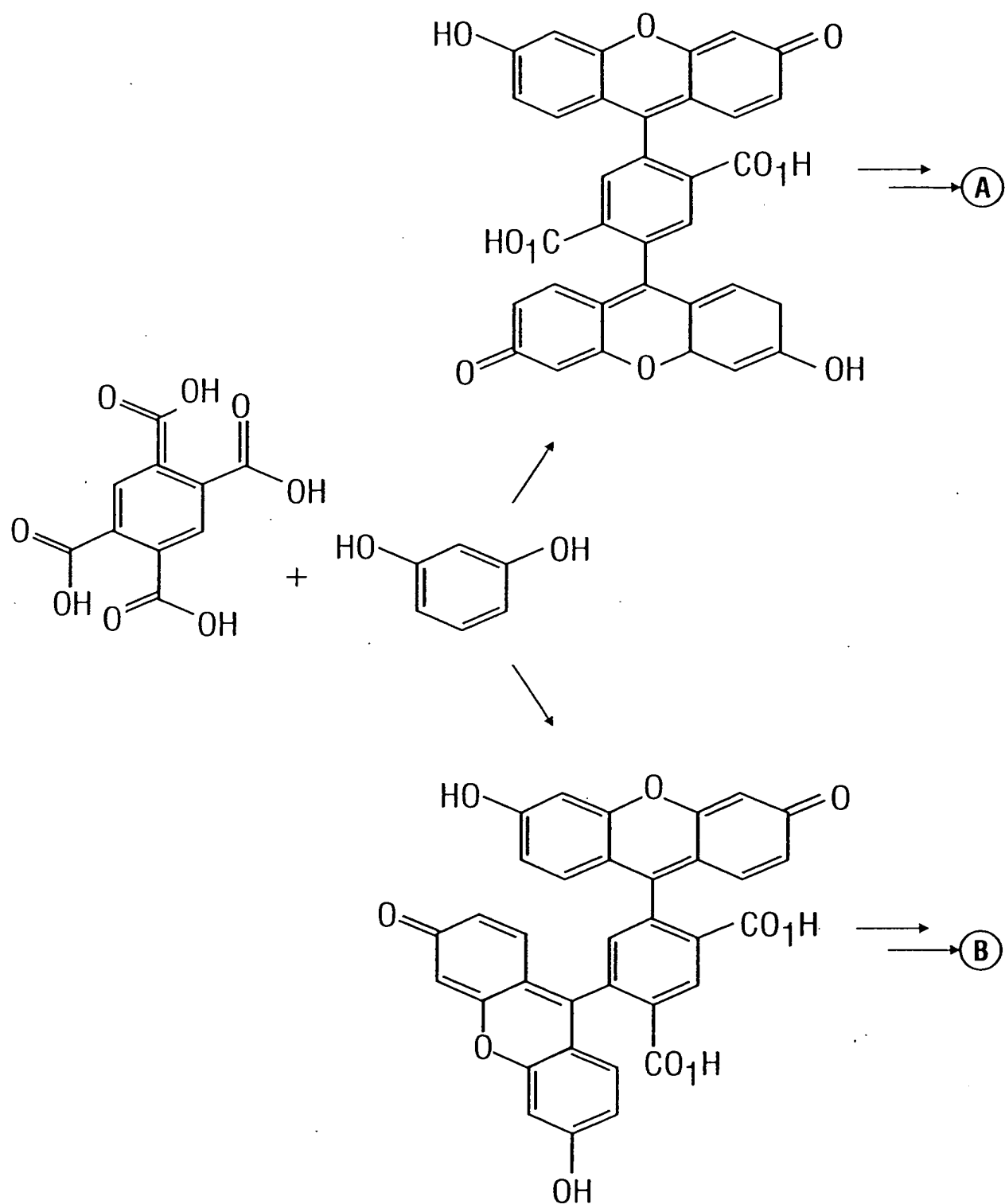
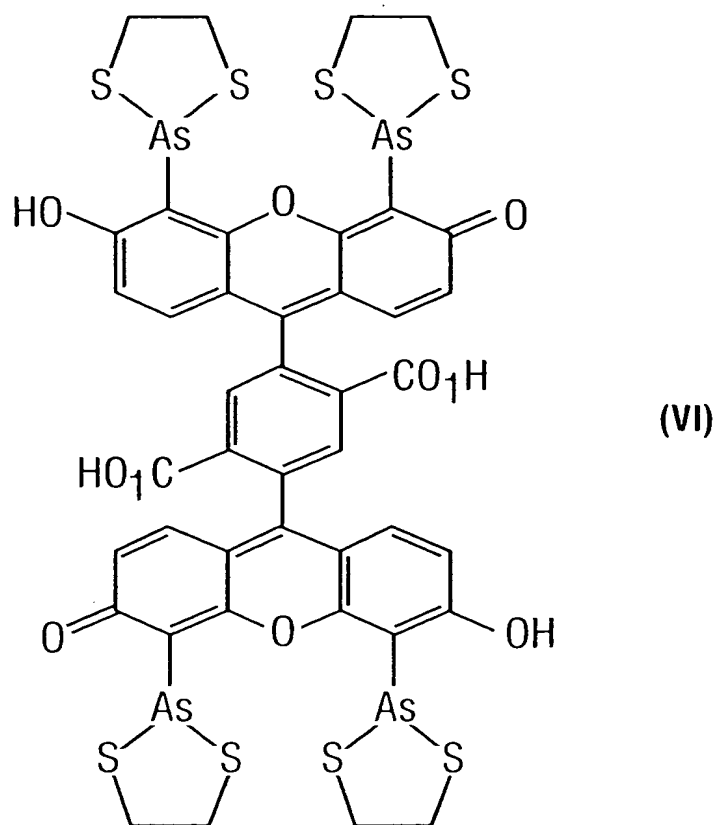


FIG. 2A

(A) →



(B) →

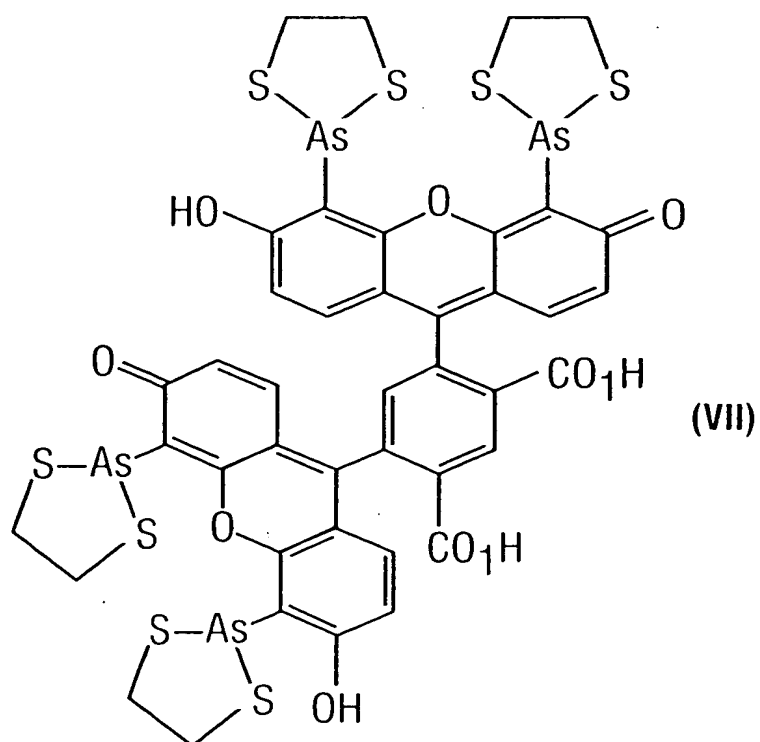
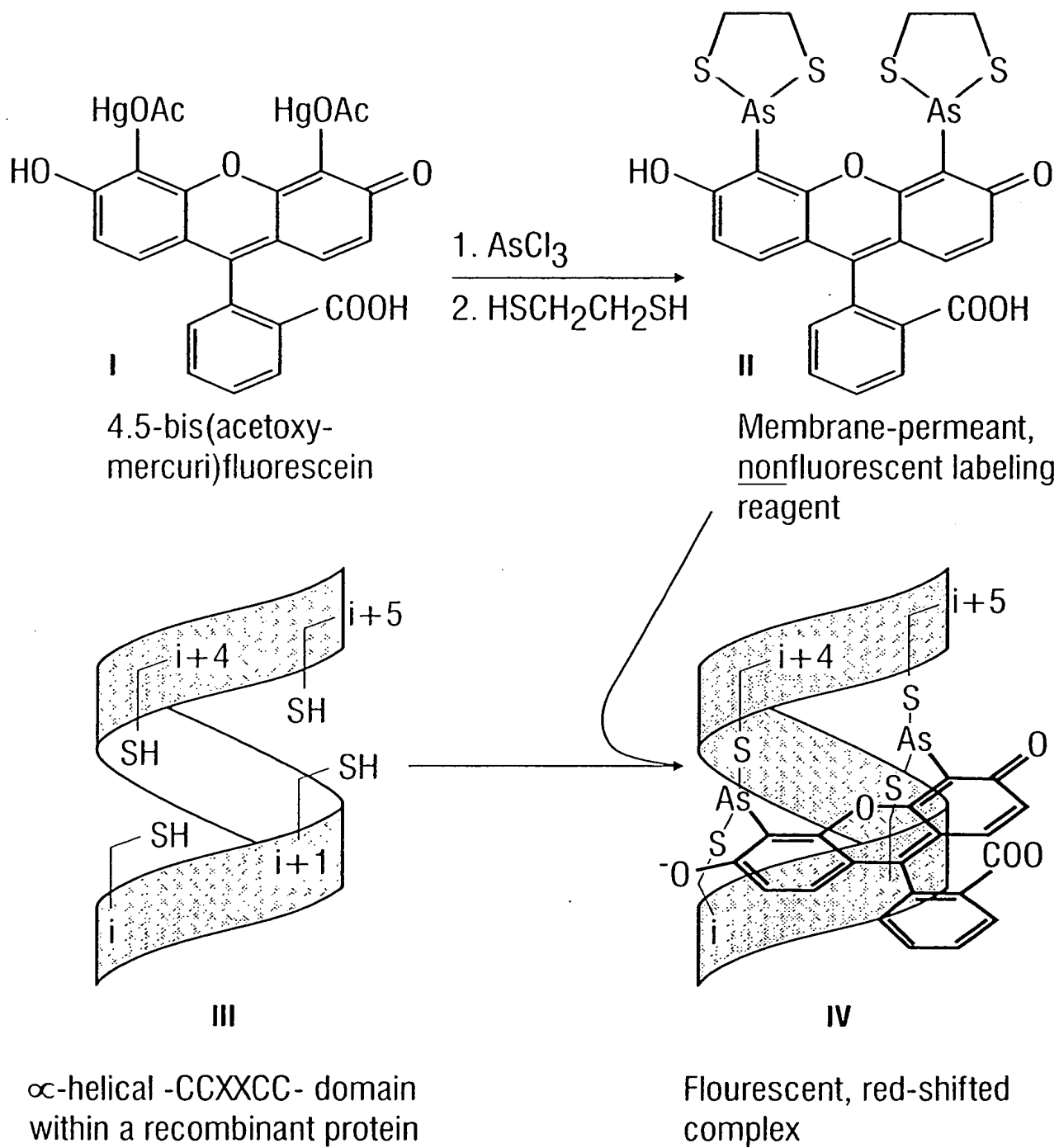


FIG. 2B



**FIG. 3**

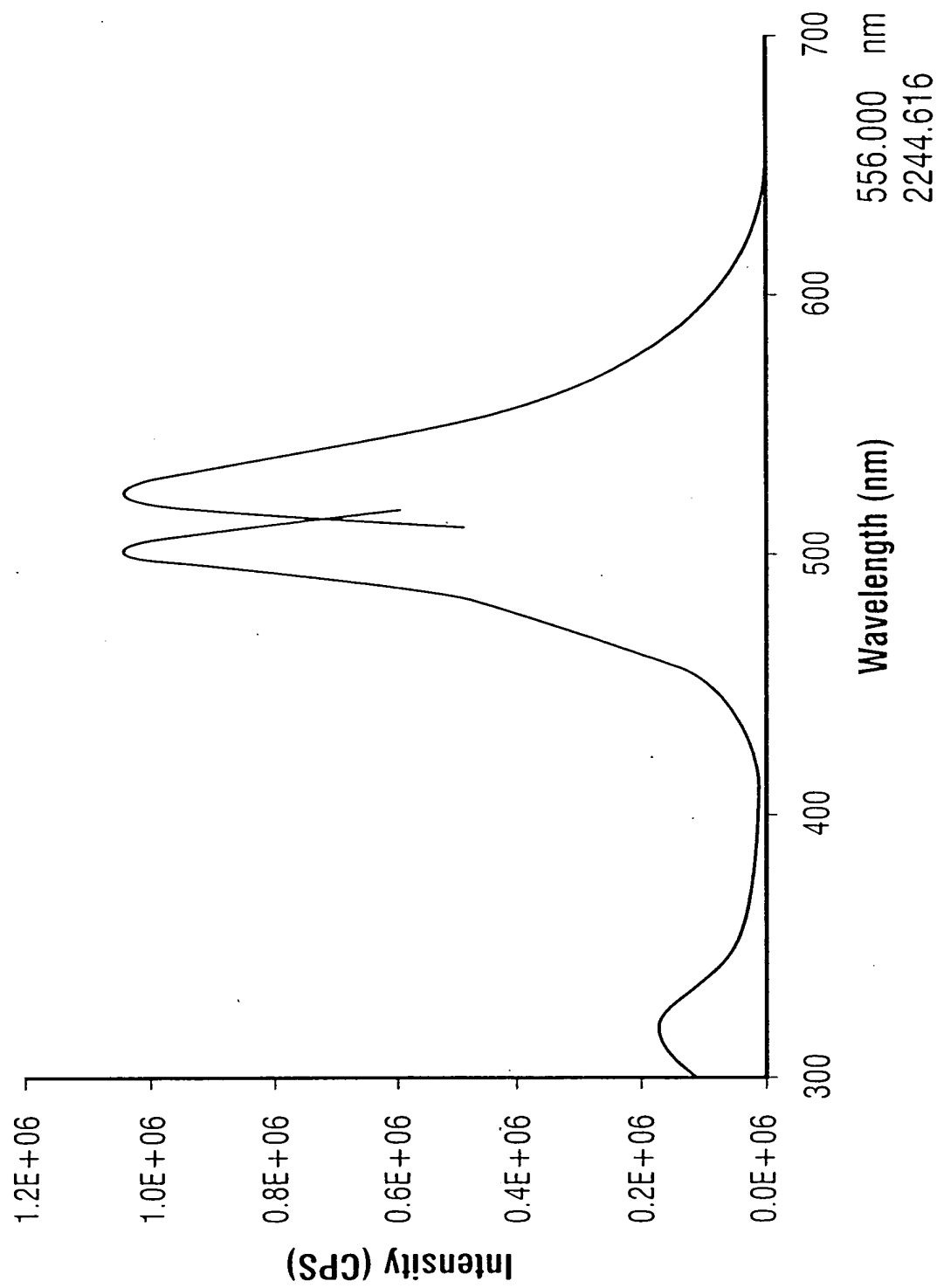
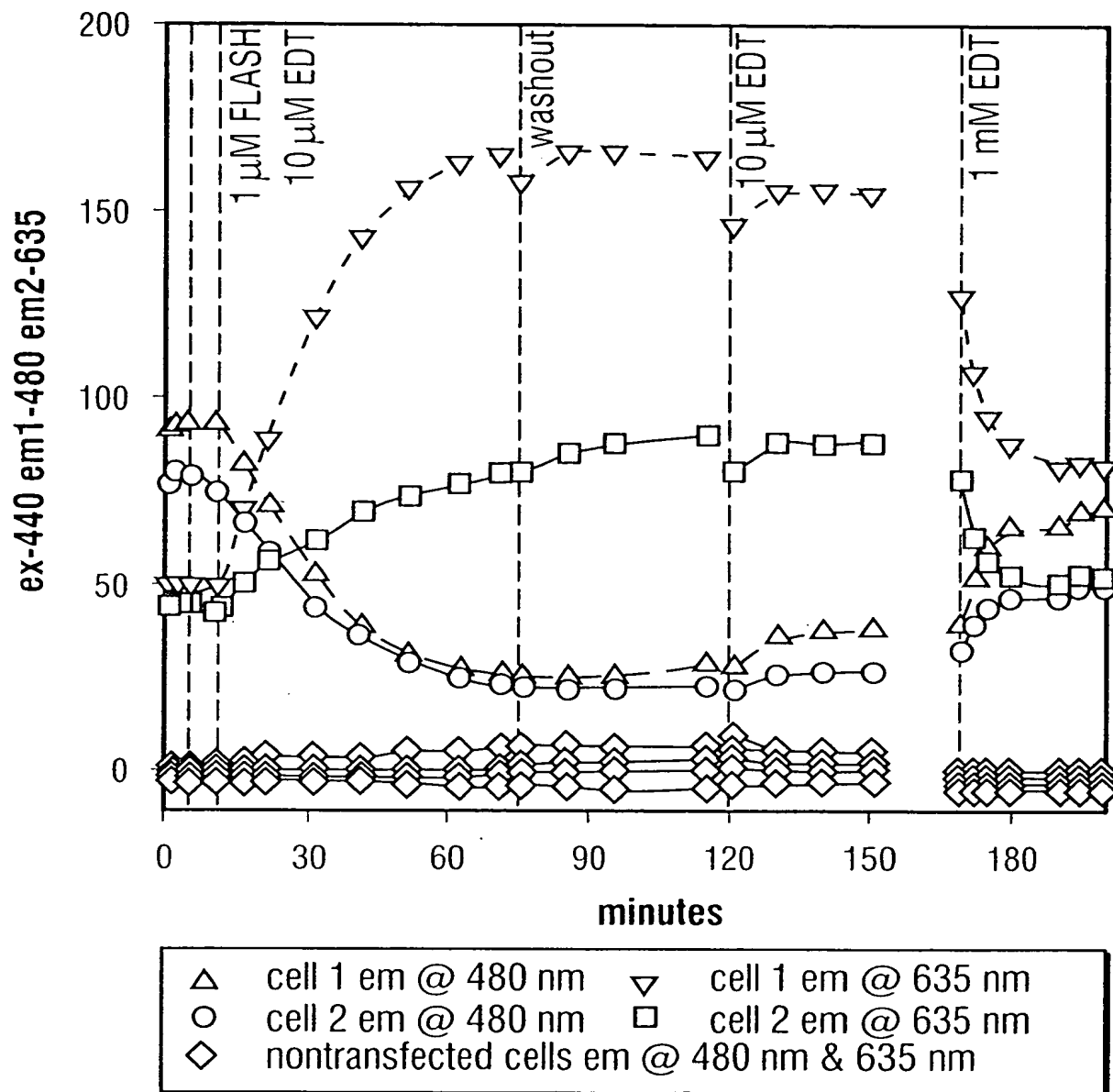
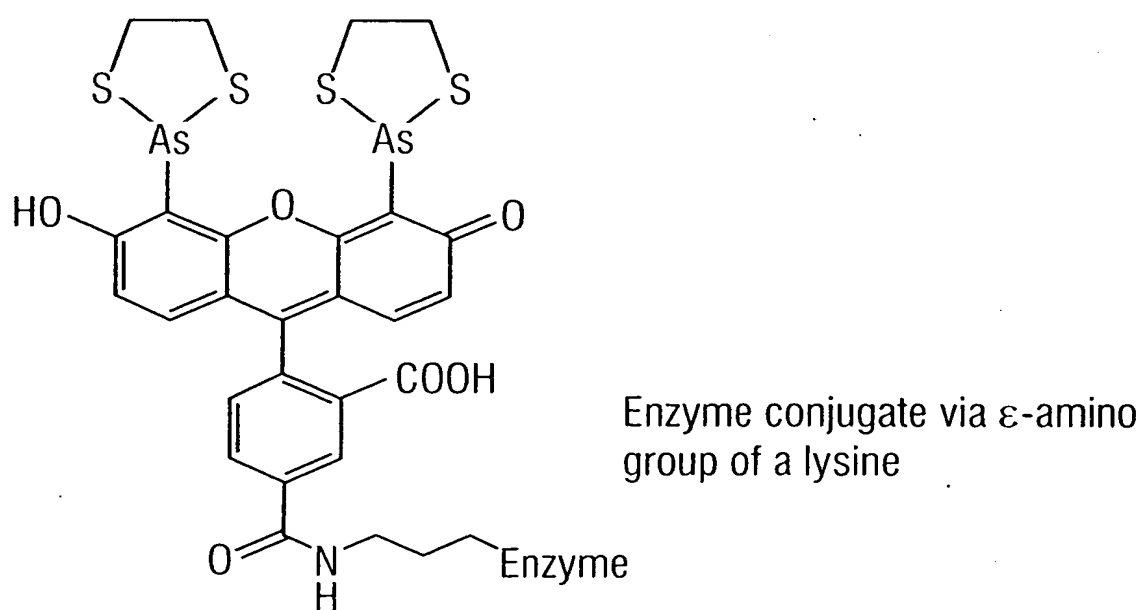
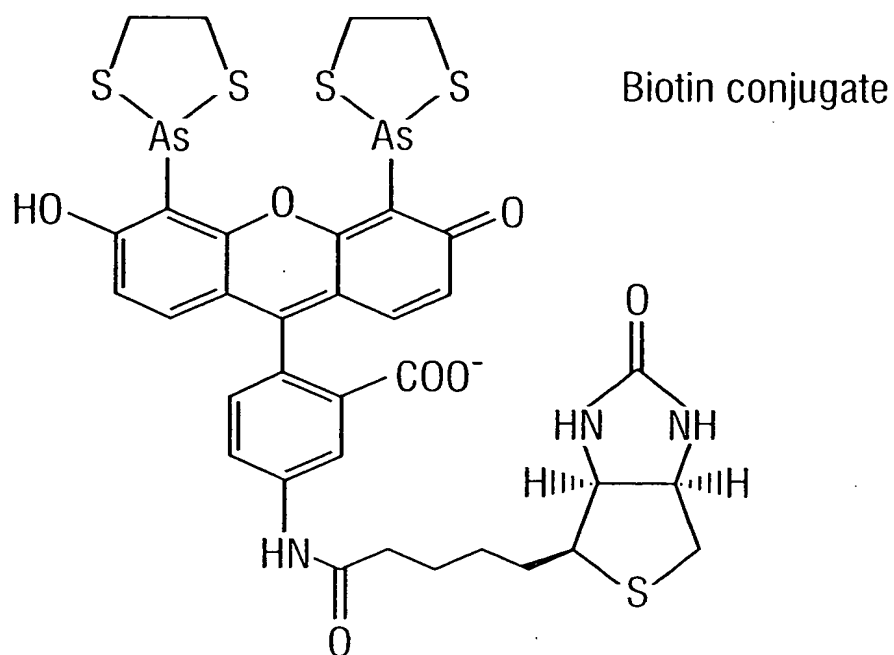


FIG. 4

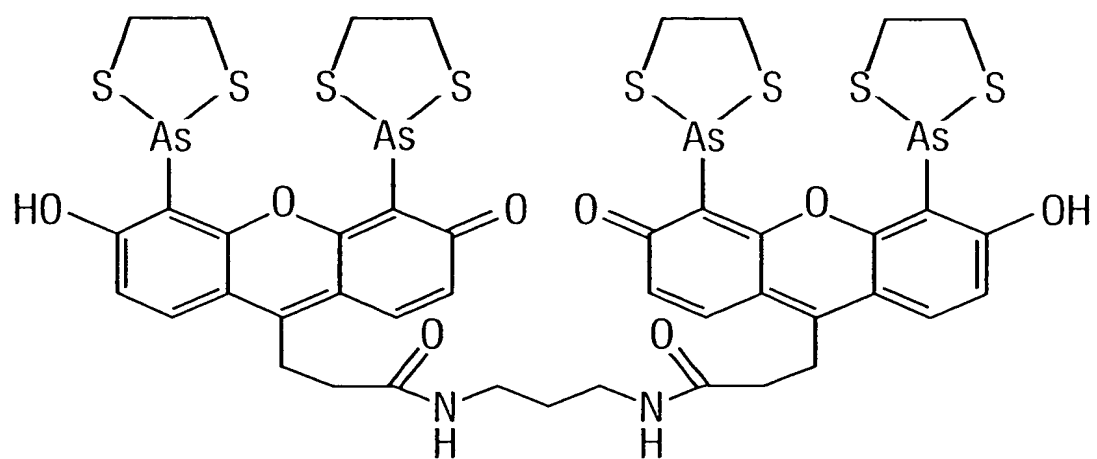


**FIG. 5**



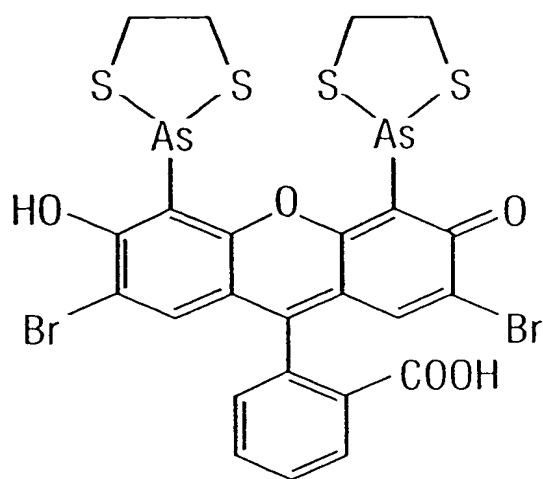
**FIG. 6**



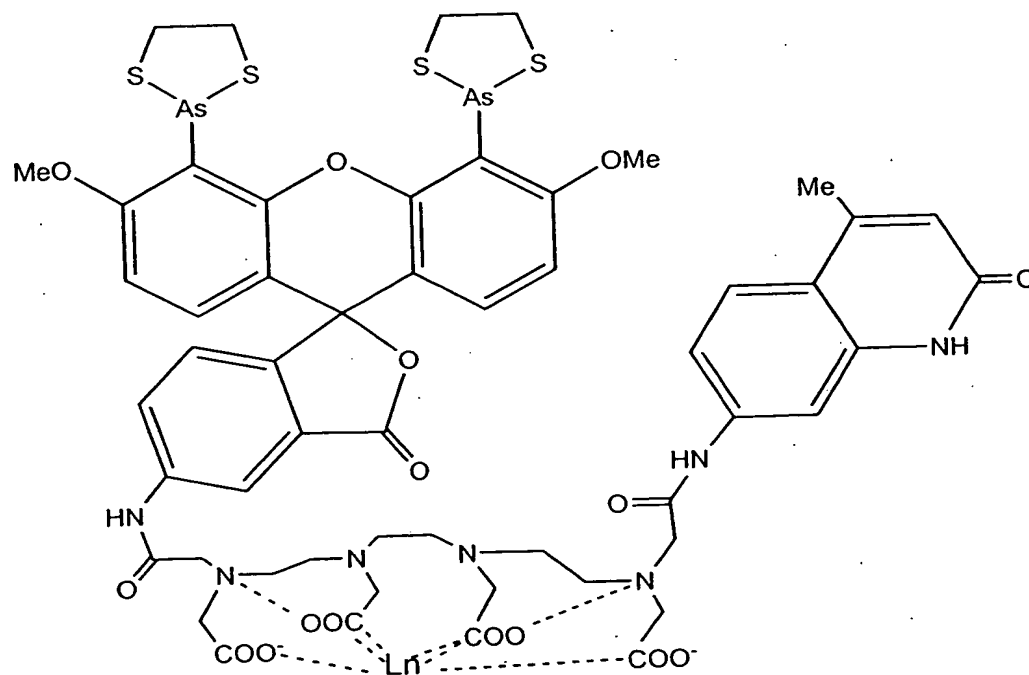


(VIII)

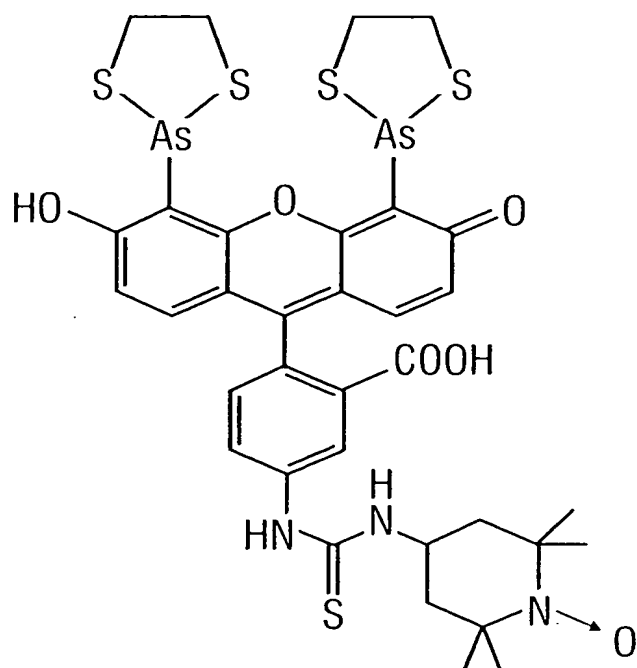
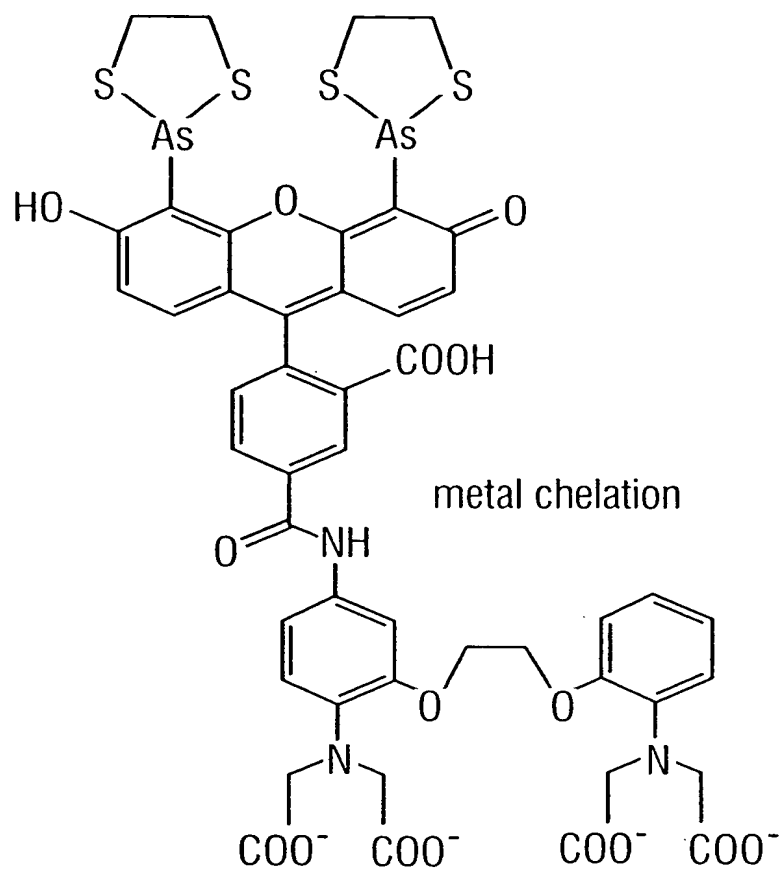
**FIG. 7**



phosphorescence (in absence of  $O_2$ )  
singlet oxygen generation with  $O_2$

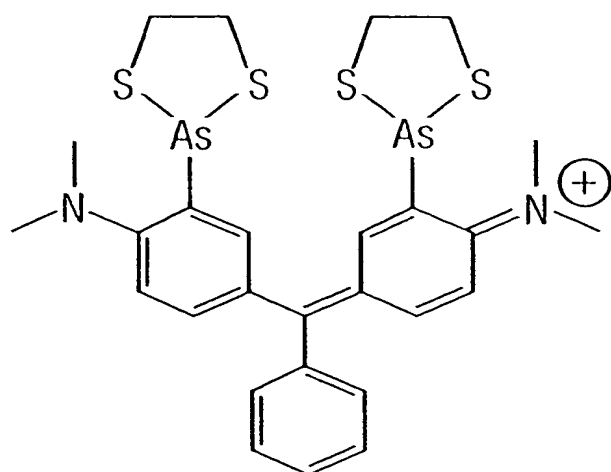


$Ln = Tb, Eu$ : luminescence

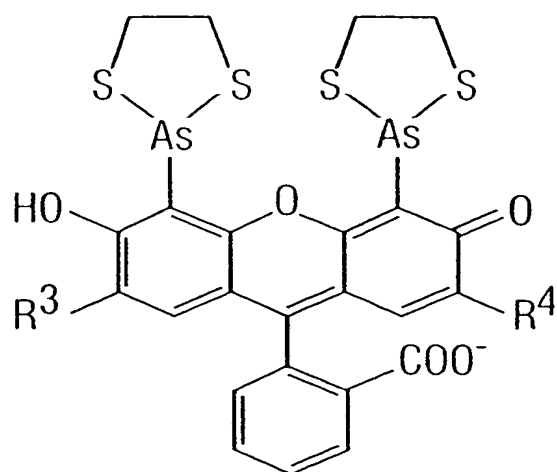


spin label (electron paramagnetic resonance)

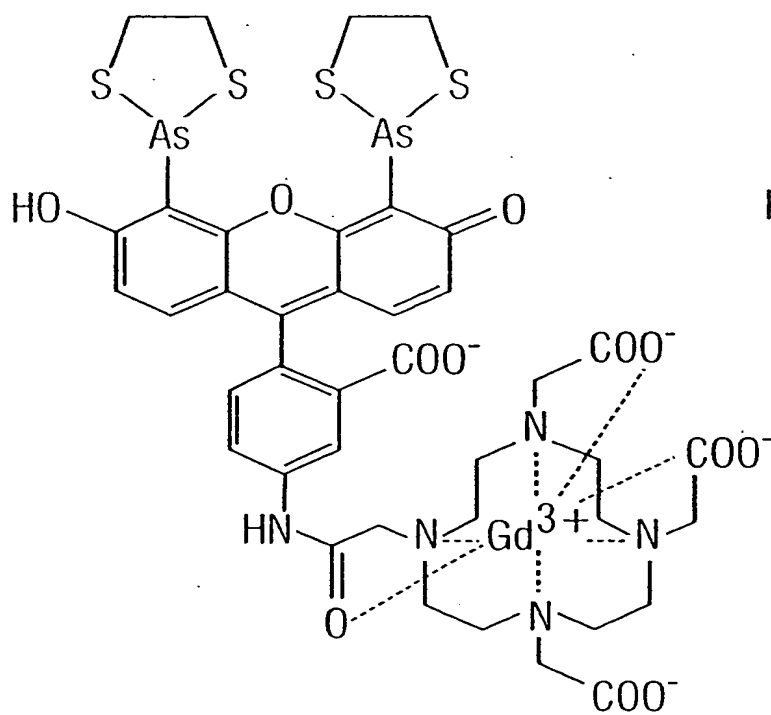
**FIG. 8B**



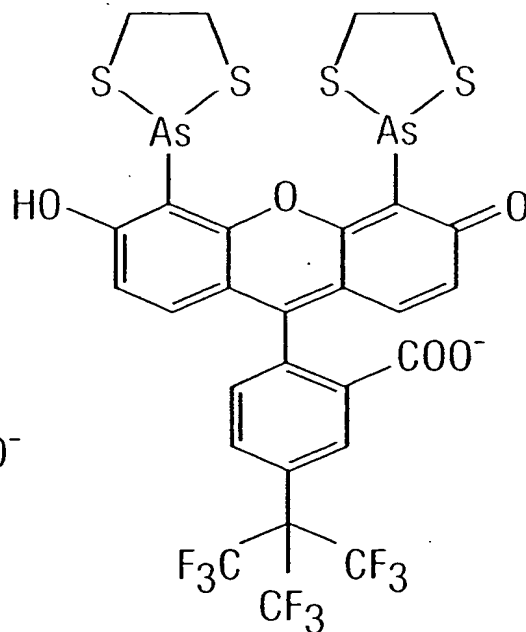
Photosensitizer of hydroxyl radical formation



$R^3 = R^4 = {}^3\text{H}$  or  ${}^{125}\text{I}$ : radioactivity  
 $R^3 = R^4 = \text{I}$  or  $\text{TlOH}$ : heavy atoms for X-ray scattering

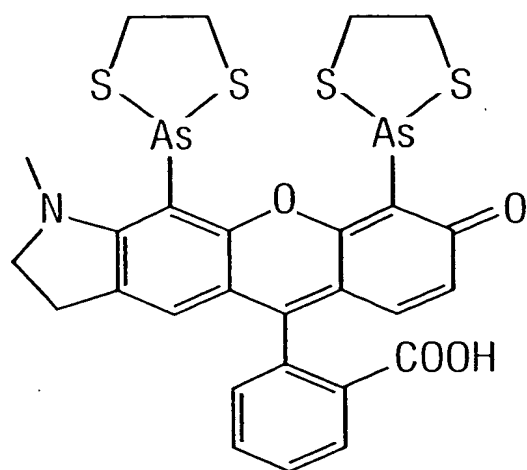


Paramagnetic ion increasing proton relaxivity



${}^{19}\text{F}$  NMR probe

FIG. 9



**FIG. 10**